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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,120	04/07/2006	Ryoji Nomura	0553-0492	9220
24628	7590	03/15/2011		
Husch Blackwell Sanders, LLP			EXAMINER	
Husch Blackwell Sanders LLP Welsh & Katz			CROUSE, BRETT ALAN	
120 S RIVERSIDE PLAZA			ART UNIT	PAPER NUMBER
22ND FLOOR			1786	
CHICAGO, IL 60606				
			MAIL DATE	DELIVERY MODE
			03/15/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/575,120	NOMURA ET AL.
	Examiner BRETT A. CROUSE	Art Unit 1786

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 21 December 2010.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 and 9-16 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6 and 9-16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftperson's Patent Drawing Review (PTO-941)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Application Status

1. This office action is in response to the amendment, filed 21 December 2010, which amends claims 1-5 and adds new claim 16.
2. Claims 1-6 and 9-16 are pending.

Response to Amendment

3. The rejections of record are overcome by the amendment, filed 21 December 2010.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

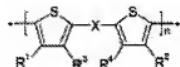
5. Claims 1, 2, 6, 7, 8, 9, 10, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heeney et al., EP 1,439,590 in view of Tokito et al., Journal of Physics: Applied Physics,

(1996), Volume 29, Pages 2750-2753 and Kinlen, US 2004/0018382, with further evidence provided by Liu et al., Applied Physics Letters, (2007), Volume 91, 142106.

Heeney teaches:

Paragraph [0102], teaches an electroluminescent device comprising mono-, oligo- or poly-mers of formula (I). The passage additionally teaches multilayer electroluminescent device structures comprising hole transport layer(s), electron transport layer(s) and emission layer(s) and applying a voltage across such a structure.

Paragraphs [0026]-[0029], claim 1, formula (I), teach mono-, oligo- or poly-mers of formula (I), shown below, in the charge transport or electroluminescent layers of an organic light emitting diode. The mers of formula (I) can be used alone or in combination. X of formula (I) can be a substituted or unsubstituted arylene or heteroarylene group.



Paragraph [0079], teaches the compositions comprising mers of formula (I) can further comprise additional materials including transition metal compounds.

Paragraphs [0028]-[0030]-[0033], [0080], teach the use of the materials of formula (I) in displays and backlights.

Heeney does not teach:

Heeney does not teach transition metal oxides.

Tokito teaches:

Page 2750, teaches the use of various transition metal oxides to reduce the energy barrier and improve hole injection from an ITO or AZO anode into an electroluminescent device. Vanadium oxide, molybdenum oxide and ruthenium oxide are taught as exemplified materials.

Page 2752, figure 4, teaches the effect on the operating voltage versus the work function of the metal oxide selected.

It would have been obvious to one of ordinary skill in the art to use the transition metal oxides of Tokito as the transition metal compounds suggested by Heeney to obtain the improved charge injection from the ITO electrode of Heeney as observed by Tokito.

Heeney/Tokito does not teach:

Heeney/Tokito does not provide an experimental example of a device comprising the mers of Heeney in a first and second layer in which the first layer contacts the cathode and the second layer contacts the anode. However, Heeney teaches a light emitting device structure in paragraph [0102] having hole and electron transport layers and further teaches that the mers can be used in the charge transport or light emitting layers of the device.

Kinlen teaches:

Kinlen is added to teach a second electrode multi-layer structure comprising a conductive polymer on the side internal to the device and a metal contact layer on the side external to the device.

Paragraph [0092], example 3, figure 8, teaches an electroluminescent device structure.

Paragraphs [0100]-[0104], teach in order a first electrode layer and second electrode layer. The first electrode layer can be a conductive polymer. Recited conductive polymers include polypyrrole and poly(3,4-ethylenedioxythiophene). The second electrode layer is formed on the external face of the first electrode layer.

Liu as further evidence:

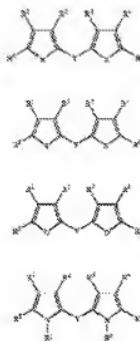
Liu is added to provide the charge mobility of holes and electron in alpha-NPD (NPB). Figure 1 of Liu, 142106-2, teaches the charge mobility of holes and electrons in NPB at various electric field strengths.

Statement of Obviousness:

It would have been obvious to one of ordinary skill in the art to use the polythiophene composition of Heeney / Tokito as both the anode and cathode of the device of Heeney as suggested by Kinlen to provide a durable and corrosion resistant external electrode as suggested by Kinlen.

6. Claims 1-6, 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takasu et al., US 2004/0258954 in view of Heeney et al., EP 1,439,590 and Tokito et al., Journal of Physics: Applied Physics, (1996), Volume 29, Pages 2750-2753, and Hosokawa, US 2002/0045061 and Kinlen, US 2004/0018382, with further evidence provided by Liu et al., Applied Physics Letters, (2007), Volume 91, 142106, and Angelopoulos et al., US 5,198,153. Takasu teaches:

Paragraphs [0025]-[0031], formulae 5,6,7,8. teach an electroluminescent device comprising a molecule represented by the formulae, shown below.



Paragraph [0032], teaches Y of the formulae represents an arylene group.

Paragraphs [0098], [0104], [0112], [0121], [0125], [0128], provide exemplified compounds in which further fused rings are formed from R¹, R² and R³, R⁴.

Paragraph [0059], teaches various electroluminescent device structures. The passage additionally teaches the materials of the formulae can be used in the hole injection, hole transport, and luminescent layers of the device.

Paragraph [0104], teaches a device structure comprising a light emitting layer, electron injection layer and cathode.

Paragraph [0061], teaches various materials suitable for use in the layers of the electroluminescent device.

Paragraphs [0067]-[0068], figures 2A, 2B, teach the use of the electroluminescent device as a pixel

Paragraphs [0086]-[0089], teach the use of the electroluminescent device in various display applications including televisions, personal computers, and telephones.

Takasu does not teach:

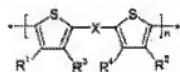
Takasu does not teach an electron acceptor as a dopant to the layer comprising the material of the formulae.

Takasu does not teach the use of the materials of the formulae in the electron transport/injection layers of an electroluminescent device.

Heeney teaches:

Paragraph [0102], teaches an electroluminescent device comprising mono-, oligo- or poly-mers of formula (I). The passage additionally teaches multilayer electroluminescent device structures comprising hole transport layer(s), electron transport layer(s) and emission layer(s) and applying a voltage across such a structure.

Paragraphs [0026]-[0029], [0080], claim 1, formula (I), teach mono-, oligo- or poly-mers of formula (I), shown below, in the charge transport, charge injection, or electroluminescent layers of an organic light emitting diode. The mers of formula (I) can be used alone or in combination. X of formula (I) can be a substituted or unsubstituted arylene or heteroarylene group.



Paragraphs [0077]-[0079], teach the compositions comprising mers of formula (I) can further comprise additional materials including transition metal compounds. The passage also incorporates by reference, Angelopoulos et al., US 5,198,153 in paragraph [0077]. Paragraphs [0028]-[0030]-[0033], [0080], teach the use of the materials of formula (I) in displays and backlights.

Angelopoulos as further evidence:

Angelopoulos is incorporated by reference into Heeney in paragraph [0077].

Column 17, lines 52-57, teach doped polymers can provide conductivity on the order of $10 \text{ ohm}^{-1} \text{ cm}^{-1}$.

Column 16, lines 8-24, formula, teach suitable (co)polymers include thiophenes, furans, pyrroles and combinations thereof. The formula is reproduced below.



It would have been obvious to one of ordinary skill in the art to use the doped thiophene, furan, and pyrrole (co)polymers as taught by Heeney in device of Takasu as charge transporting materials in the light emitting, hole injection/transport and electron injection/transport layers to provide high conductivity to the layer(s) of the device to improve device efficiency.

Takasu / Heeney does not teach:

Takasu / Heeney does not teach transition metal oxides.

Tokito teaches:

Page 2750, teaches the use of various transition metal oxides to reduce the energy barrier and improve hole injection from an ITO or AZO anode into an electroluminescent device. Vanadium oxide, molybdenum oxide and ruthenium oxide are taught as exemplified materials.

Page 2752, figure 4, teaches the effect on the operating voltage versus the work function of the metal oxide selected.

It would have been obvious to one of ordinary skill in the art to use the transition metal oxides of Tokito as the transition metal compounds suggested by Heeney to obtain the improved charge injection from the ITO electrode of Takasu / Heeney as observed by Tokito.

Takasu / Heeney / Tokito does not teach:

Takasu does not teach an electron generation layer.

Takasu / Heeney / Tokito does not provide an experimental example of a device comprising the mers of Heeney in a first and second layer in which the first layer contacts the cathode and the second layer contacts the anode. However, Heeney teaches a light emitting device structure in paragraph [0102] having hole and electron transport layers and further teaches that the mers can be used in the charge transport or light emitting layers of the device.

Kinlen teaches:

Kinlen is added to teach a second electrode multi-layer structure comprising a conductive polymer on the side internal to the device and a metal contact layer on the side external to the device.

Paragraph [0092], example 3, figure 8, teaches an electroluminescent device structure.

Paragraphs [0100]-[0104], teach in order a first electrode layer and second electrode layer. The first electrode layer can be a conductive polymer. Recited conductive polymers include polypyrrole and poly(3,4-ethylenedioxythiophene). The second electrode layer is formed on the external face of the first electrode layer.

Hosokawa teaches:

Hosokawa is added to teach an intermediate layer on the cathode side of the light emitting layer meeting the instant definition of an electron generation layer.

Paragraphs [0109]-[0115], teach a hole barrier layer improves device performance by confining holes in the luminescence layer. The passage additionally provides a preferred composition of the hole barrier layer comprising BPhen or BCP in combination with Li or Cs.

Paragraph [0160], example 3, teaches 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline (Bathocuproine)(BCP) co-deposited with cesium in a hole barrier layer deposited upon the luminescent layer.

Paragraph [0103], teaches it is preferred to include a semiconductor layer having an electrical conductivity of at least 10^{-10} S/cm between the anode and light emitting layer.

It would have been obvious to one of ordinary skill in the art to use the hole barrier layer of Hosokawa in the device of Takasu to improve the hole confinement in the light emitting layer and improve device performance as suggested by Hosokawa.

Liu as further evidence:

Liu is added to provide the charge mobility of holes and electron in alpha-NPD (NPB). Figure 1 of Liu, 142106-2, teaches the charge mobility of holes and electrons in NPB at various electric field strengths.

Statement of Obviousness:

It would have been obvious to one of ordinary skill in the art to use the polythiophene composition of Heeney / Tokito as both the anode and cathode of the device of Heeney as

suggested by Kinlen to provide a durable and corrosion resistant external electrode as suggested by Kinlen.

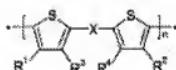
It would have been obvious to one of ordinary skill in the art to use an intermediate (hole blocking) layer as taught by Hosokawa in the device of Takasu to improve the efficiency of the device as taught by Hosokawa.

7. Claims 1, 2, 6, 7, 8, 9, 10, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heeney et al., EP 1,439,590 in view of Ikeda et al., WO 2005/031798 and Kinlen, US 2004/0018382, with further evidence provided by Liu et al., Applied Physics Letters, (2007), Volume 91, 142106.

Heeney teaches:

Paragraph [0102], teaches an electroluminescent device comprising mono-, oligo- or poly-mers of formula (I). The passage additionally teaches multilayer electroluminescent device structures comprising hole transport layer(s), electron transport layer(s) and emission layer(s) and applying a voltage across such a structure.

Paragraphs [0026]-[0029], claim 1, formula (I), teach mono-, oligo- or poly-mers of formula (I), shown below, in the charge transport or electroluminescent layers of an organic light emitting diode. The mers of formula (I) can be used alone or in combination. X of formula (I) can be a substituted or unsubstituted arylene or heteroarylene group.



Paragraph [0079], teaches the compositions comprising mers of formula (I) can further comprise additional materials including transition metal compounds.

Paragraphs [0028] [0030]-[0033], [0080], teach the use of the materials of formula (I) in displays and backlights.

Heeney does not teach:

Heeney does not teach transition metal oxides.

Ikeda teaches:

Abstract, teaches a light emitting device comprising a layer which further comprises a hole transporting compound and a oxide semiconductor or metal oxide.

Page 3, teaches exemplified examples of the oxide semiconductor or metal oxide. The examples include vanadium oxide, molybdenum oxide, tungsten oxide and ruthenium oxide.

Cite pages as Ikeda teaches in the examples an electron transport layer (not doped) It would have been obvious to one of ordinary skill in the art to use the transition metal oxides of Ikeda as the transition metal compounds suggested by Heeney to obtain the improved charge transportation and improved device life as observed by Ikeda.

Heeney / Ikeda does not teach:

Heeney / Ikeda does not provide an experimental example of a device comprising the mers of Heeney in a first and second layer in which the first layer contacts the cathode and the second layer contacts the anode. However, Heeney teaches a light emitting device structure in paragraph [0102] having hole and electron transport layers and further

teaches that the mers can be used in the charge transport or light emitting layers of the device.

Kinlen teaches:

Kinlen is added to teach a second electrode multi-layer structure comprising a conductive polymer on the side internal to the device and a metal contact layer on the side external to the device.

Paragraph [0092], example 3, figure 8, teaches an electroluminescent device structure.

Paragraphs [0100]-[0104], teach in order a first electrode layer and second electrode layer. The first electrode layer can be a conductive polymer. Recited conductive polymers include polypyrrole and poly(3,4-ethylenedioxothiophene). The second electrode layer is formed on the external face of the first electrode layer.

Liu as further evidence:

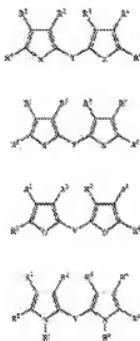
Liu is added to provide the charge mobility of holes and electron in alpha-NPD (NPB). Figure 1 of Liu, 142106-2, teaches the charge mobility of holes and electrons in NPB at various electric field strengths.

It would have been obvious to one of ordinary skill in the art to use the polythiophene composition of Heeney / Ikeda as both the anode and cathode of the device of Heeney as suggested by Kinlen to provide a durable and corrosion resistant external electrode as suggested by Kinlen.

8. Claims 1-6 and 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takasu et al., US 2004/0258954 in view of Heeney et al., EP 1,439,590 and Ikeda et al., WO 2005/031798, and Hosokawa, US 2002/0045061 and Kinlen, US 2004/0018382, with further evidence provided by Liu et al., Applied Physics Letters, (2007), Volume 91, 142106 and Angelopoulos et al., US 5,198,153.

Takasu teaches:

Paragraphs [0025]-[0031], formulae 5,6,7,8, teach an electroluminescent device comprising a molecule represented by the formulae, shown below.



Paragraph [0032], teaches Y of the formulae represents an arylene group.

Paragraphs [0098], [0104], [0112], [0121], [0125], [0128], provide exemplified compounds in which further fused rings are formed from R¹, R² and R³, R⁴.

Paragraph [0059], teaches various electroluminescent device structures. The passage additionally teaches the materials of the formulae can be used in the hole injection, hole transport, and luminescent layers of the device.

Paragraph [0061], teaches various materials suitable for use in the layers of the electroluminescent device.

Paragraphs [0067]-[0068], figures 2A, 2B, teach the use of the electroluminescent device as a pixel

Paragraphs [0086]-[0089], teach the use of the electroluminescent device in various display applications including televisions, personal computers, and telephones.

Takasu does not teach:

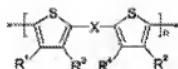
Takasu does not teach an electron acceptor as a dopant to the layer comprising the material of the formulae.

Takasu does not teach the use of the materials of the formulae in the electron transport/injection layers of an electroluminescent device.

Heeney teaches:

Paragraph [0102], teaches an electroluminescent device comprising mono-, oligo- or poly-mers of formula (I). The passage additionally teaches multilayer electroluminescent device structures comprising hole transport layer(s), electron transport layer(s) and emission layer(s) and applying a voltage across such a structure.

Paragraphs [0026]-[0029], [0080], claim 1, formula (I), teach mono-, oligo- or poly-mers of formula (I), shown below, in the charge transport, charge injection, or electroluminescent layers of an organic light emitting diode. The mers of formula (I) can be used alone or in combination. X of formula (I) can be a substituted or unsubstituted arylene or heteroarylene group.



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Angelopoulos as further evidence:

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Column 16, lines 8-24, formula, teach suitable (co)polymers include thiophenes, furans, pyrroles and combinations thereof. The formula is reproduced below.



It would have been obvious to one of ordinary skill in the art to use the doped thiophene, furan, and pyrrole (co)polymers as taught by Heeney in device of Takasu as charge transporting materials in the light emitting, hole injection/transport and electron injection/transport layers to provide high conductivity to the layer(s) of the device to improve device efficiency.

Takasu / Heeney does not teach:

Takasu / Heeney does not teach transition metal oxides.

Ikeda teaches:

Abstract, teaches a light emitting device comprising a layer which further comprises a hole transporting compound and a oxide semiconductor or metal oxide.

Page 3, teaches exemplified examples of the oxide semiconductor or metal oxide. The examples include vanadium oxide, molybdenum oxide, tungsten oxide and ruthenium oxide.

It would have been obvious to one of ordinary skill in the art to use the transition metal oxides of Ikeda as the transition metal compounds suggested by Heeney to obtain the improved charge transportation and improved device life as observed by Ikeda.

Takasu / Heeney / Ikeda does not teach:

Takasu does not teach an electron generation layer.

Takasu / Heeney / Ikeda does not provide an experimental example of a device comprising the mers of Heeney in a first and second layer in which the first layer contacts the cathode and the second layer contacts the anode. However, Heeney teaches a light emitting device structure in paragraph [0102] having hole and electron transport layers and further teaches that the mers can be used in the charge transport or light emitting layers of the device. Ikeda additionally provides an electron transport layer to the devices of the examples.

Kinlen teaches:

Kinlen is added to teach a second electrode multi-layer structure comprising a conductive polymer on the side internal to the device and a metal contact layer on the side external to the device.

Paragraph [0092], example 3, figure 8, teaches an electroluminescent device structure.

Paragraphs [0100]-[0104], teach in order a first electrode layer and second electrode layer. The first electrode layer can be a conductive polymer. Recited conductive polymers include polypyrrole and poly(3,4-ethylenedioxothiophene). The second electrode layer is formed on the external face of the first electrode layer.

Hosokawa teaches:

Paragraphs [0109]-[0115], teach a hole barrier layer improves device performance by confining holes in the luminescence layer. The passage additionally provides a preferred composition of the hole barrier layer comprising BPhen or BCP in combination with Li or Cs.

Paragraph [0160], example 3, teaches 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline (Bathocuproine)(BCP) co-deposited with cesium in a hole barrier layer deposited upon the luminescent layer.

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Liu as further evidence:

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It would have been obvious to one of ordinary skill in the art to use the polythiophene composition of Takasu / Heeney / Ikeda as both the anode and cathode of the device of

Takasu as suggested by Kinlen to provide a durable and corrosion resistant external electrode as suggested by Kinlen.

It would have been obvious to one of ordinary skill in the art to use an intermediate (hole barrier) layer as taught by Hosokawa in the device of Takasu to improve the efficiency of the device as taught by Hosokawa.

Response to Arguments

9. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brett A. Crouse whose telephone number is (571)-272-6494. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, D. Lawrence Tarazano can be reached on 571-272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B. A. C./
Examiner, Art Unit 1786

/D. Lawrence Tarazano/
Supervisory Patent Examiner, Art Unit 1786